

#2 OIPE

RAW SEQUENCE LISTING

DATE: 09/18/2001

PATENT APPLICATION: US/09/938,641

TIME: 11:13:51

Input Set : A:\211226US0X.txt

Output Set: N:\CRF3\0,9182001\1938641.raw

	3	<110>	APPLICANT: MARX, ACHIM	国系	ITER
	4		FARWICK, MIKE	ا ر	
	5		HERMANN, THOMAS		
	6		SCHISCHKA, NATALIE		
	7		BATHE, BRIGITTE		
	9	<120>	TITLE OF INVENTION: NUCLEOTIDE SEQUENCES WHICH CODE FOR	THE C	XYR GENE
	11	<130>	FILE REFERENCE: 211226USOX		
C>	13	<140>	CURRENT APPLICATION NUMBER: US/09/938,641		
C>	13	<141>	CURRENT FILING DATE: 2001-08-27		
	13	<150>	PRIOR APPLICATION NUMBER: DE 10042052.4		
	14	<151>	PRIOR FILING DATE: 2000-08-26	•	
	16	<150>	PRIOR APPLICATION NUMBER: DE 10110053.1		
	17	<151>	PRIOR FILING DATE: 2001-03-02		
	19	<150>	PRIOR APPLICATION NUMBER: US 60/279,415		
	20	<151>	PRIOR FILING DATE: 2001-03-29		
	22	<160>	NUMBER OF SEQ ID NOS: 4		
	24	<170>	SOFTWARE: PatentIn version 3.1		
	26	<210>	SEQ ID NO: 1	•	•
	27	<211>	LENGTH: 1675		
,	28	<212>	TYPE: DNA		
	29	<213>	ORGANISM: Corynebacterium glutamicum		
	31	<220>	FEATURE:		
	32	<221>	NAME/KEY: CDS		
	33	<222>	LOCATION: (491)(1471)		
			OTHER INFORMATION:		
			SEQUENCE: 1		
			ccgca gggcatttac catcatggtg cgcaacgcca tgttccgcct tgtggag		60
			ttatg aaaaggaaga tcagcttagt cagatgactg aatacctgga tgaggc1		120
		_	cggtg ctgcgatgga tgcgtacttt gatgaatatg cggatcttga taccggd	_	180
			tcgtg gaccagagtt cttcaaggta gagcacacgg gaagaatgtg ggaggtg		240
			ggtga aggatccaga aggtgataat teettegegt ttgttgecae cattgat		300
			ctctg atgatgcagg tgaggtgcgt tttggatcgc tgtcgattga ccacaac	_	360
			tgcgt cgaaaagcaa gcacgcctgg tgcctgattt gagcggtttt acctatg		420
			gcgcc gtcaaactgt cccagcgatt tcattattat tttcgtgcat tcaccgt		480
		agttat	tagge atg age aat aaa gag tae egg eee aca ete gee eag ett		529
	55		Met Ser Asn Lys Glu Tyr Arg Pro Thr Leu Ala Gln Leu	1	
	56		1 5 10		
			cc ttt gtc acc atc gca gaa tgc aag cac ttt ggt act gct gc		577
			hr Phe Val Thr Ile Ala Glu Cys Lys His Phe Gly Thr Ala Al	La	
		15			
			ag etg tee att teg eag eea tee ete tee eag gea ett gte ge		625
		-	ys Leu Ser Ile Ser Gln Pro Ser Leu Ser Gln Ala Leu Val Al		
	64		35 40 45		670
			aa aca ggc ctg gga gtt cag ctg att gaa cgc tcc acc cgc aa		673
		ьеи Gl	lu Thr Gly Leu Gly Val Gln Leu Ile Glu Arg Ser Thr Arg Ly	rs	
	68		50 55 60		701
	70	gtc at	tt gtc acc cca gcg ggc gag aag ttg ctg cca ttc gcc aaa to	;C	721

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/938,641 TIME: 11:13:51

Input Set :  $A:\211226US0X.txt$ 

Output Set: N:\CRF3\09182001\I938641.raw

71 72	Val	Ile	Val	Thr 65	Pro	Ala	Gly	Glu	Lys 70	Leu	Leu	Pro	Phe	Ala 75	Lys	Ser	
	acc	ctt	gac		gcg	gag	tct	ttc		tcc	cac	qcc	aaq	ggc	gcc	aac	769
															Ăla		
76			80					85					90				
78	ggt	tcg	ctc	act	gga	ccg	ttg	acc	gta	ggc	atc	atc	ccc	acg	gcg	gct	817
79	Gly	Ser	Leu	Thr	Gly	Pro	Leu	Thr	Val	Gly	Ile		${\tt Pro}$	Thr	Ala	Ala	
80		95					100					105					
				_	-		_	_				-	-	-	tat		865
		$\mathtt{Tyr}$	Ile	Leu	Pro		Met	Leu	Ser	Ile		Asp	Glu	Glu	Tyr		
84						115	_				120					125	
	_	_	_				_		-			_			ctc		913
	Asp	Leu	GIu	Pro		ite	vaı	GIu	Asp		Thr	ьуs	HIS	Leu	Leu	Ala	
88					130					135					140		0.61
															cct		961
92	Leu	ьeu	Arg	145	GIY	Ата	тте	ASP	150	Ата	мес	Met	Ата	155	Pro	ser	
	~ ~ ~	aa2	003		a+a	220	<b>722</b>	a t a		ata	tan	a a a	maa.		ttt	ato	1009
		-			_	-	-					-	-	_	Phe		1005
96	GIU	niu	160	OLY	ricc	цуз	Olu	165	110	Licu	+ Y +	пор	170	пор	Inc	110	
	atc	att		act	age	σat	cac		ttc	acc	gge	cac		σас	tta	gaa	1057
																Glu -	
100		175					180				0-1	185					
				: tta	gaa	gac	ctc	gat	cto	cto	ctt	cto	gad	gad	c qqa	cac	1105
			_		-	_		_	_				-	_		His	
	190					195		-			200		-		-	205	
106	tgo	ctc	cac	gac	caa	att	gtg	gac	ctg	tgo	cgc	cgc	gga	gad	ato	aac	1153
107	Cys	Leu	His	Asp	Gln	Ile	Val	Asp	Leu	Cys	arg	Arg	Gly	Asp	Ile	Asn	
108					210	)				215	5				220	)	
110	ccc	att	ago	tco	act	act	gct	gto	acc	c cgc	gca	tcc	ago	ctt	acc	acc	1201
111	Pro	Ile	Ser	Ser	Thr	Thr	Ala	Val	Thr	Arg	, Ala	Ser	Sei	Leu	ı Thr	Thr	
112				225					230					235			
																atc	1249
	Val	Met			Val	. Val	Ala	_		Gly	Ser	Thr			. Pro	Ile	
116			240					245					250				400=
																aac	1297
	Ser			Pro	rrp	GIU		Thr	Arg	Pro	GLY			ı Tnı	: Ата	Asn	
120	++~	255		. ~-+	~+ ~		260		~~~		++	265			. +		1245
																cgt	1345
	270		Ser	Asp	val	275		ASII	Ary	ALG	280		цес	l Val	. Tyr	285	
			tat	+a+	000			a = a	++0				aa=	oto	. a++	ttg	1393
																Leu	1333
128		SEI	Ser	Der	290		Giu	GIU	· FIIC	295		riie	AIG	шес	300		
		cac	act	tte			acc	ato	aca			acc	tea	act		atc	1441
																Ile	
132		9		305				. — -	310					315	_		
	acc	tta	aaq			qtc	qcq	qta			taa	qttt	ttc		ggtt	tt	1491
				Gln								-			-		
			_														

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/938,641 TIME: 11:13:51

Input Set : A:\211226US0X.txt

Output Set: N:\CRF3\09182001\1938641.raw

136			320					325									
	cca	gagt		ctaca	aagc	aa aa	aagc	cctt	t cc	attg	atgc	aca	ccaa	cgt (	gagai	ttcaag	1551
			-		_		_			_	-			_		aatatt	1611
142	tcc	acca	ctg a	atct	ggcg	gt a	aata	tgaa	c gg	taga	cagc	atc	atta	ctg (	gcago	cacgat	1671
144	gate	С	-														1675
147	<21	0> S	EQ I	D NO	: 2												
148	<21	1> L	ENGT	H: 3	27												
149	9 <212> TYPE: PRT																
150	<21	3> 0	RGAN:	ISM:	Cor	yneba	acte:	rium	glu	tami	cum						
152	<40	0> S	EQUE	NCE:	2										,		
154	Met	Ser	Asn	Lys	Glu	Tyr	Arg	Pro	Thr	Leu	Ala	Gln	Leu	Arg	Thr	Phe	
155	1				5					10					15		
158	Val	Thr	Ile	Ala	Glu	Cys	Lys	His	Phe	Gly	Thr	Ala	Ala	Thr	Lys	Leu	
159				20					25					30			
162	Ser	Ile	Ser	Gln	Pro	Ser	Leu	Ser	Gln	Ala	Leu	Val	Ala	Leu	Glu	Thr	
163			35					40					45				
166	Gly	Leu	Gly	Val	Gln	Leu	Ile	Glu	Arg	Ser	Thr	Arg	Lys	Val	Ile	Val	
167		50					55					60					
170	Thr	Pro	Ala	Gly	Glu	Lys	Leu	Leu	Pro	Phe	Ala	Lys	Ser	Thr	Leu	Asp	
171	65					70					75					80	
174	Ala	Ala	Glu	Ser	Phe	Leu	Ser	His	Ala	Lys	Gly	Ala	Asn	Gly	Ser	Leu	
175					85					90					95		
178	Thr	Gly	Pro	Leu	Thr	Val	Gly	Ile	Ile	Pro	Thr	Ala	Ala	Pro	Tyr	Ile	
179				100					105					110			
182	Leu	Pro	Ser	Met	Leu	Ser	Ile	Val	Asp	Glu	Glu	Tyr	Pro	Asp	Leu	Glu	
183			115					120					125				
186	Pro	His	Ile	Val	Glu	Asp	Gln	Thr	Lys	His	Leu	Leu	Ala	Leu	Leu	Arg	
187		130					135					140					
190	Asp	Gly	Ala	Ile	Asp	Val	Ala	Met	Met	Ala	Leu	Pro	Ser	Glu	Ala	Pro	
191	145					150					155					160	
194	Gly	Met	Lys	Glu	Ile	Pro	Leu	Tyr	Asp	Glu	Asp	Phe	Ile	Val	Val	Thr	
195					165					170					175		
198	Ala	Ser	Asp	His	Pro	Phe	Ala	Gly	Arg	Gln	Asp	Leu	Glu	Leu	Ser	Ala	
199				180					185					190			
202	Leu	Glu	Asp	Leu	Asp	Leu	Leu	Leu	Leu	Asp	Asp	Gly	His	Cys	Leu	His	
203			195					200					205				
206	Asp	Gln	Ile	Val	Asp	Leu	Cys	Arg	Arg	Gly	Asp	Ile	Asn	Pro	Ile	Ser	
207		210					215					220					
210	Ser	Thr	Thr	Ala				Ala					Thr	Val	Met	Gln	
211	225					230					235					240	
214	Leu	Val	Val	Ala	Gly	Leu	Gly	Ser	Thr	Leu	Val	Pro	Ile	Ser	Ala	Ile	
215					245					250					255		
218	${\tt Pro}$	Trp	Glu	Cys	Thr	Arg	Pro	Gly	Leu	Ala	Thr	Ala	Asn	Phe	Asn	Ser	
219				260					265					270			
222	Asp	Val	Thr	Ala	Asn	Arg	Arg	Ile	Gly	Leu	Val	Tyr	Arg	Ser	Ser	Ser	
223			275					280					285				
226	Ser	_	Ala	Glu	Glu	Phe		Gln	Phe	Ala	Leu	Ile	Leu	Gln	Arg	Ala	
227		290					295					300					
230	Phe	Gln	Glu	Ala	Val	Ala	Leu	Ala	Ala	Ser	Thr	Gly	Ile	Thr	Leu	Lys	

RAW SEQUENCE LISTING

DATE: 09/18/2001 TIME: 11:13:51

PATENT APPLICATION: US/09/938,641

Input Set : A:\211226US0X.txt

Output Set: N:\CRF3\09182001\1938641.raw

231	305	310	315	320
234	Gln Asn Val Ala Val	Ala Gln		
235	325			
238	<210> SEQ ID NO: 3			
239	<211> LENGTH: 30			
240	<212> TYPE: DNA			
241	<213> ORGANISM: Art:	ificial Sequence		
243	<220> FEATURE:			
244	<223> OTHER INFORMAT	TION: Synthetic DNA		
246	<400> SEQUENCE: 3			
247	gatcgagaat tcaaaggaa	ag atcagcttag	•	30
250	<210> SEQ ID NO: 4			
251	<211> LENGTH: 20			
252	<212> TYPE: DNA			
253	<213> ORGANISM: Art:	ificial Sequence		
255	<220> FEATURE:			
256	<223> OTHER INFORMAT	TION: Synthetic DNA		
258	<400> SEQUENCE: 4			
259	ggaaaacctc tagaaaaa	ct		20

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/938,641

DATE: 09/18/2001 TIME: 11:13:52

Input Set : A:\211226US0X.txt

Output Set: N:\CRF3\09182001\I938641.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date